SIEMENS

Data sheet US2:42BF15AL



Contactor, 42DP,30A,2P,Open,277 Contactor, 42DP,30A,2P,Open,277

design of the product Non-reversing Definite Purpose Contactor Special product feature Snap on auxiliary contacts, enclosed body design Ceneral technical data weight [Ib] 1.03 lb Height x Width x Depth [In] 1.03 lb Height x Width x Depth [In] 1.03 lb Not finger-safe ambient temperature (F) 4 uring storage 158 "F 4 uring operation 158 158 "F 5 "C 4 uring operation 158 158 "F 5 "C 4 uring operation 158 158 "F 5 "C 5	product brand name	Class 42 DP Contactors
Weight [Ib] 1.03 lb 1.	design of the product	Non-reversing Definite Purpose Contactor
weight [ib] Height x Width x Depth [in] 3,69 x 2,38 x 2,87 in touch protection against electrical shock Anot finger-safe ambient temperature [*F] • during storage • during operation ambient temperature • during storage • during operation country of origin number of poles for main current circuit Contactor size of contactor main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value rechanced size of contactor for auxiliary contacts number of NO contacts for auxiliary contacts 1 20 A 2 2 B 2 2 B 3 2 B 4 C 1 2 C 4 C 1 2 C 4 C 1 2 C 4 C 1 2 C 4 C 1 2 C 4 C 1 2 C 4 C 1 2 C 1 2 C 4 C 1 2 C 1 2 C 2 C 2 C 3 C 4 C 1 2 C 4 C 1 2 C 4 C 1 2 C 1 2 C 2 C 3 C 4 C 1 2 C 4 C 1 2 C 4 C 1 2 C 1 3	special product feature	Snap on auxiliary contacts, enclosed body design
Height x Width x Depth [in] 10	General technical data	
touch protection against electrical shock ambient temperature "F" • during storage • during operation **To "C" country of origin number of poles for main current circuit **Contactor** **size of contactor and contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical **Auxiliary contact** number of NC contacts for auxiliary contacts number of NC contacts at contactor for auxilia	weight [lb]	1.03 lb
ambient temperature [°F] • during storage • during operation ambient temperature • during storage • during storage • during storage • during storage • during operation 75 °C • during operation 70 70 °C country of origin number of poles for main current circuit 2 Contactor size of contactor number of NO contacts for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 120 A mechanical service life (operating cycles) of the main contacts lypical Auxillary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts 10 10 A 10 A 240 V at AC at 50 Hz rated value 240 V at AC at 50 Hz rated value 240 V at AC at 50 Hz rated value 240 V 277 V Mounting/wiring Mounting/wiring Open device (no enclosure)	Height x Width x Depth [in]	3.69 × 2.38 × 2.87 in
during storage during operation ambient temperature during storage during operation 75 °C during operation 70 70 °C country of origin country of origin number of poles for main current circuit 2 Contactor size of contactor size of contacts for main current circuit 4 AC at 60 Hz maximum operating voltage for main current circuit 4 AC at 60 Hz maximum operational current at AC at 600 V rated value operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NO contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts val AC at 600 V contact rating of auxiliary contacts of contactor val AC at 600 Hz rated value val AC at	touch protection against electrical shock	Not finger-safe
during operation ambient temperature during storage during operation 75 °C 70 70 °C country of origin China number of poles for main current circuit 2 Contactor size of contactor 10 number of NO contacts for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC auxiliary contacts of total auxiliary contacts of total auxiliary contacts of total auxiliary contacts of total auxiliary contacts of contactor at AC at 600 V contact rating of auxiliary contacts of contactor according to UL control supply voltage at AC at 60 Hz rated value operational current of protection NEMA rating of the enclosure Open device (no enclosure)	ambient temperature [°F]	
ambient temperature • during storage • during operation country of origin number of poles for main current circuit 2 Contactor size of contactor number of NO contacts for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 4 number of NC contacts for auxiliary contacts 4 number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 0 number of NC contacts at contactor for auxiliary contacts 0 number of total auxiliary contacts for auxiliary contacts 0 number of total auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor • at AC at 60 bt z rated value • at AC at 60 bt z rated value	during storage	158 °F
• during storage • during operation 75 °C • during operation 70 70 °C country of origin China number of poles for main current circuit 2 Contactor size of contactor 30A number of NC contacts for main contacts 2 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxillary contact number of NC contacts for auxiliary contacts 1 number of NC contacts for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC contacts at contactor for auxiliary contacts 1 number of NC at 600 V 1 number of NC at 600 V 2 contact rating of auxiliary contacts of contactor 1 at AC at 50 Hz rated value 2 at AC at 50 Hz rated value	 during operation 	158 158 °F
 during operation country of origin china number of poles for main current circuit 2 Contactor size of contactor size of contacts for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum operational current of auxiliary contacts of contactor at AC at 60 U at AC at 60 Uz rated value 240 V at AC at 50 Hz rated value 240 V at AC at 60 Hz rated value Open device (no enclosure) Enclosure degree of protection NEMA rating of the enclosure Open device (no enclosure) 	ambient temperature	
country of origin number of poles for main current circuit 2 Contactor size of contactor number of NO contacts for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 1	during storage	75 °C
number of poles for main current circuit size of contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts of auxiliary contacts number of total auxiliary contacts for auxiliary contacts number of total auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value e at AC at 60 Hz rated value Open device (no enclosure) Mounting/wiring	 during operation 	70 70 °C
Size of contactor size of contactor number of NO contacts for main contacts operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts number of total auxiliary contacts of auxiliary contacts number of total auxiliary contacts of contactor at AC at 600 V contact rating of auxiliary contacts of contactor at AC at 600 V contact rating of auxiliary contacts of contactor according to UL coil control supply voltage at AC at 50 Hz rated value at AC at 60 Hz rated value degree of protection NEMA rating of the enclosure Open device (no enclosure) Mounting/wiring	country of origin	China
size of contactor number of NO contacts for main current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 1 4 number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts at contactor • at AC at 600 V contact rating of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value • open device (no enclosure) Mounting/wiring	number of poles for main current circuit	2
number of NO contacts for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts 10 number of NC contacts at contactor for auxiliary contacts 10 number of NO contacts at contactor for auxiliary contacts 10 number of NO contacts at contactor for auxiliary contacts 10 number of NO contacts at contactor for auxiliary contacts 10 number of total auxiliary contacts maximum 4 operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value 240 V • at AC at 60 Hz rated value 277 V Enclosure degree of protection NEMA rating of the enclosure Open device (no enclosure)	Contactor	
operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Cotil control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value Open device (no enclosure) Mounting/wiring	size of contactor	30A
maximum operational current at AC at 600 V rated value mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts	number of NO contacts for main contacts	2
mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value Open device (no enclosure) Mounting/wiring		600 V
Auxiliary contact number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NC contacts for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL 10A@600VAC (A600), 11A 1/2HP 125-250VAC, 0.6A 125VDC, 0.3A 250VDC Coil control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value • at AC at 60 Hz rated value 240 V • at AC at 60 Hz rated value Copen device (no enclosure) Mounting/wiring	operational current at AC at 600 V rated value	120 A
number of NC contacts for auxiliary contacts number of NO contacts for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value • at AC at 60 Hz rated value Open device (no enclosure) Mounting/wiring		250000
number of NO contacts for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value • at AC at 60 Hz rated value Open device (no enclosure) Mounting/wiring	Auxiliary contact	
number of NC contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value • at AC at 60 Hz rated value Open device (no enclosure) Mounting/wiring	number of NC contacts for auxiliary contacts	4
number of NO contacts at contactor for auxiliary contacts number of total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL 10 A control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value • at AC at 60 Hz rated value • at AC at 60 Hz rated value Open device (no enclosure) Mounting/wiring	number of NO contacts for auxiliary contacts	4
number of total auxiliary contacts maximum operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value • at AC at 60 Hz rated value degree of protection NEMA rating of the enclosure Mounting/wiring 4 10 A 10 A 10 A 10 A 240 V 240 V 277 V Enclosure	number of NC contacts at contactor for auxiliary contacts	0
operational current of auxiliary contacts of contactor • at AC at 600 V contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value 240 V • at AC at 60 Hz rated value Coil Enclosure degree of protection NEMA rating of the enclosure Mounting/wiring Open device (no enclosure)	number of NO contacts at contactor for auxiliary contacts	0
at AC at 600 V contact rating of auxiliary contacts of contactor according to UL coil control supply voltage at AC at 50 Hz rated value at AC at 60 Hz rated value control supply voltage at AC at 60 Hz rated value control supply voltage control supply voltage at AC at 50 Hz rated value control supply voltage control supply voltage at AC at 50 Hz rated value control supply voltage control supply v	number of total auxiliary contacts maximum	4
contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage at AC at 50 Hz rated value at AC at 60 Hz rated value control supply voltage part AC at 60 Hz rated value Control supply voltage part AC at 60 Hz rated value Control supply voltage part AC at 50 Hz rated value Con	operational current of auxiliary contacts of contactor	
Coil control supply voltage • at AC at 50 Hz rated value • at AC at 60 Hz rated value 240 V • at AC at 60 Hz rated value Enclosure degree of protection NEMA rating of the enclosure Mounting/wiring Open device (no enclosure)	• at AC at 600 V	10 A
control supply voltage • at AC at 50 Hz rated value 240 V • at AC at 60 Hz rated value 277 V Enclosure degree of protection NEMA rating of the enclosure Open device (no enclosure) Mounting/wiring	contact rating of auxiliary contacts of contactor according to UL	10A@600VAC (A600), 11A 1/2HP 125-250VAC, 0.6A 125VDC, 0.3A 250VDC
 at AC at 50 Hz rated value at AC at 60 Hz rated value Enclosure degree of protection NEMA rating of the enclosure Mounting/wiring 240 V 277 V Open device (no enclosure)	Coil	
● at AC at 60 Hz rated value Enclosure degree of protection NEMA rating of the enclosure Mounting/wiring 277 V Open device (no enclosure)	control supply voltage	
Enclosure degree of protection NEMA rating of the enclosure Mounting/wiring Open device (no enclosure)	• at AC at 50 Hz rated value	240 V
degree of protection NEMA rating of the enclosure Open device (no enclosure) Mounting/wiring	• at AC at 60 Hz rated value	277 V
Mounting/wiring	Enclosure	
	degree of protection NEMA rating of the enclosure	Open device (no enclosure)
mounting position vertical	Mounting/wiring	
	mounting position	vertical

fastening method	Surface mounting and installation
type of electrical connection for supply voltage line-side	Box lug
tightening torque [lbf·in] for supply	25 25 lbf·in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	4 AWG
type of electrical connection for load-side outgoing feeder	Box lug
type of connectable conductor cross-sections for AWG cables for load-side outgoing feeder single or multi-stranded	4 AWG
type of electrical connection of magnet coil	Quick connects, Screw-type terminals
type of electrical connection for auxiliary and control circuit	Quick Connects, Screw-type terminals
type of electrical connection at contactor for auxiliary contacts	Screw-type terminals
Certificates/ approvals	
certificate of suitability	cRUus, ARI 780 & 790, UL File E14900
Further information	

Industrial Controls - Product Overview (Catalogs, Brochures,...)

www.usa.siemens.com/iccatalog

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/us/Catalog/product?mlfb=US2:42BF15AL

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

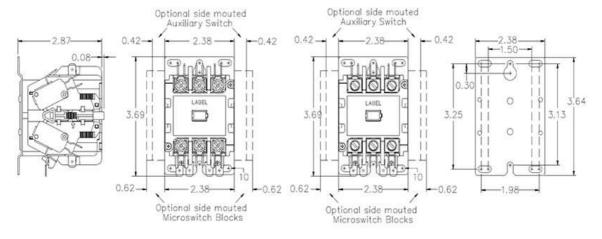
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 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:42BF15AL\&lang=en}}$

Certificates/approvals

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