SIEMENS

Data sheet US2:42EF35AL



Contactor, 42DP,60A,3P,Open,277 Contactor, 42DP,60A,3P,Open,277

design of the product Special product feature Weight [tb] Height x Width x Depth [in] 1.59 lb Height x Width x Depth [in] 1.50 lb Height x Width x Depth [in] 1.58 lb Height x Width x Depth [in] 1.59 lb Height x Width x Width x Height x Width [in] 1.59 lb Height x Width x Depth [in] 1.59 lb Height x Width x Depth [in] 1.59 lb Height x Width x Width x Width x Height x Height x Width x Heig	product brand name	Class 42 DP Contactors
weight [b] 1.59 lb Height x Width x Depth [in] 4.04 x 2.87 x 3.11 in touch protection against electrical shock Not finger-safe ambient temperature [F] • during storage 158 "F • during storage 75 "C • during storage 75 "C country of origin China number of poles for main current circuit 3 Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 450/480 V rated value 25 hp • at 575/600 V rated value 30 hp Contactor size of contactor for main current circuit at AC at 60 Hz maximum coperation 13 operating voltage for main current circuit at AC at 60 Hz maximum 240 A Austilary contacts number of NC contacts for auxiliary contacts 4 number of NC contacts for auxiliary contacts 5 number of NC contacts for auxiliary contacts 4 number of NC contacts to auxiliary contacts 5 number of NC contacts accordance for auxiliary contacts 5 number of NC contacts accordance for auxiliary contacts 6 number of NC contacts for auxiliary contacts 10 number of NC contacts of contactor for auxiliary contacts 10 number of NC contacts accordance for for auxiliary contacts 10 number of NC contacts accordance for for auxiliary contacts 10 number of NC contacts accordance for for auxiliary contacts 10 number of NC contacts accordance for for auxiliary contacts 10 number of NC contacts accordance for for auxiliary contacts 10 number of NC contacts 10 number of NC contacts 10 number of NC contacts 10 number	design of the product	Non-reversing Definite Purpose Contactor
weight [b] Height x Width x Depth [in] 4.04 × 2.87 × 3.11 in touch protection against electrical shock Anot finger-safe ambient temperature [°F] • during storage • during operation ambient temperature • during storage • during operation 75 °C country of origin number of poles for main current circuit Horsepower ratings yielded mechanical performance [tip] for 3-phase AC motor • at 460/480 V rated value 25 hp • at 575/600 V rated value 25 hp • at 575/600 V rated value 25 hp • at 675/600 V rated value 26 hon 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 240 A mechanical service life (operating cycles) of the main contacts typical Auxiliary contact number of NC contacts for auxiliary contacts 4 number of NC contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 number of NO contacts at contactor for auxiliary contacts 0 10 A 10 A 240 A	special product feature	Snap on auxiliary contacts, enclosed body design
Height x Width x Depth [in] touch protection against electrical shock ambient temperature [*F] • during storage • during operation ambient temperature • during storage • during storage • during storage • during storage • during operation ambient temperature • during storage • during operation 75 °C Country of origin number of poles for main current circuit **Rosepower ratings** yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value at 575/600 V rated value 25 hp • at 575/600 V rated value **Size of contactor size of contactor size of contactor for wain current circuit at AC at 60 Hz maximum operating voltage for main current circuit at AC at 60 Hz mechanical service life (operating cycles) of the main contacts typical 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 ac contactor for auxiliary contacts number of NC contacts ac contactor for auxiliary contacts number of NC contacts ac contactor for auxiliary contacts number of NC contacts ac contactor for auxiliary contacts number of NC contacts ac contactor for auxiliary contacts number of NC contacts ac contactor for auxiliary contacts number of NC contacts ac contactor for auxiliary contacts number of NC contacts ac contactor for auxiliary contacts number of NC contacts ac contactor for auxiliary contacts number of NC contacts ac contactor for auxiliary contacts number of total auxiliary contacts of contactor • at AC at 500 V contact rating of auxiliary contacts of contactor • at AC at 500 Hz rated value 240 V	General technical data	
touch protection against electrical shock ambient temperature [*F] • during storage • during operation 75 °C country of origin country of origin number of poles for main current circuit Horsopower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value Size of contactor size of contactor for auxiliary contacts operating valuage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 240 A 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 auxiliary contacts number	weight [lb]	1.59 lb
amblent temperature [*F] • during storage • during operation amblent temperature • during storage • during storage • during storage • during storage • during operation 75 °C • during operation country of origin number of poles for main current circuit 3 **Horsopower ratings** yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value **Ontactor* 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 240 A 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 auxiliary contacts number of NO contacts at	Height x Width x Depth [in]	4.04 × 2.87 × 3.11 in
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during operation ambient temperature during storage during operation 75 °C during operation 70 70 °C country of origin China number of poles for main current circuit 3 Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor at 460/480 V rated value 25 hp at 575/600 V rated value 30 hp Contactor size of contactor size of contactor 60A 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 240 A mechanical service life (operating cycles) of the main contacts typical Auxillary 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 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 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 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 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 contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts of the NC contact auxiliary contacts of contactor of NC contact at contacto	ambient temperature [°F]	
ambient temperature • during storage • during operation country of origin number of poles for main current circuit 3 **torsepower ratings** yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value • at 600 V 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 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 contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts number of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of NC contacts at contactor for auxiliary contacts onumber of N	 during storage 	158 °F
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oduring operation 70 70 °C country of origin China number of poles for main current circuit 3 Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor	ambient temperature	
country of origin number of poles for main current circuit 3 Horsepower ratings yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value • at 575/600 V rated value Size of contactor size of contacts for main contacts 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 240 A 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 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 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 A contact rating 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	 during storage 	75 °C
number of poles for main current circuit Horsepower ratings	during operation	70 70 °C
yielded mechanical performance [hp] for 3-phase AC motor	country of origin	China
yielded mechanical performance [hp] for 3-phase AC motor • at 460/480 V rated value • at 575/600 V rated value 30 hp Contactor size of contactor size of contacts for main contacts 3 operating voltage for main current circuit at AC at 60 Hz maximum operational current at AC at 600 V rated value 240 A 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 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 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	number of poles for main current circuit	3
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otal s75/600 V rated value 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 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 30 hp 60A 60A 60A 60A 60A 60A 60A 60	yielded mechanical performance [hp] for 3-phase AC motor	
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 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 600 V accordance for auxiliary contacts of contactor 600 V accordance for auxiliary contacts of contactor according to UL control supply voltage • at AC at 50 Hz rated value	at 460/480 V rated value	25 hp
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 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 onumber of total 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 575/600 V rated value	30 hp
number of NO contacts for main current circuit at AC at 60 Hz 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 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 to A contact rating of auxiliary contacts of contactor according to UL control supply voltage at AC at 50 Hz rated value at AC at 50 Hz rated value	Contactor	
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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 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 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 240 V	number of NO contacts for main contacts	3
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 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 10 A contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value 240 V		600 V
Auxiliary contact number of NC contacts for auxiliary contacts number of NO 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 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 240 V	operational current at AC at 600 V rated value	240 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 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 240 V		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 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 4 10 A 10 A 10 A 10 A 10 A 240 V	Auxiliary contact	
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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 0 10 A 10 A 10 A 10 A 240 V	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 10 A contact rating of auxiliary contacts of contactor according to UL Coil control supply voltage • at AC at 50 Hz rated value 4 10 A 10 A 10 A 10 A 240 V	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 10 A 10 A 10 A 10 A 10 A 240 V	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 10 A 10A@600VAC (A600), 11A 1/2HP 125-250VAC, 0.6A 125VDC, 0.3A 250VDC 240 V	number of total auxiliary contacts maximum	4
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 240 V	operational current of auxiliary contacts of contactor	
Coil control supply voltage ● at AC at 50 Hz rated value 240 V	• at AC at 600 V	10 A
control supply voltage • at AC at 50 Hz rated value 240 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
• at AC at 50 Hz rated value 240 V	Coil	
	control supply voltage	
• at AC at 60 Hz rated value 277 V	• 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	
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	50 50 lbf·in
type of connectable conductor cross-sections at line-side for AWG cables single or multi-stranded	2 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	2 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)

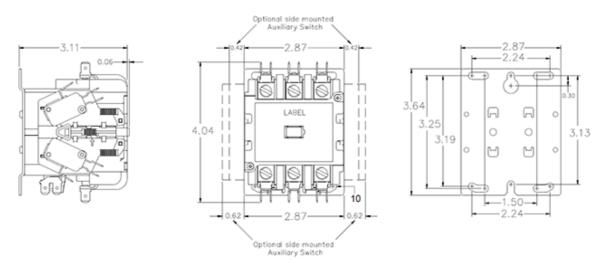
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Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/US/en/ps/US2:42EF35AL

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=US2:42EF35AL&lang=en

Certificates/approvals

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